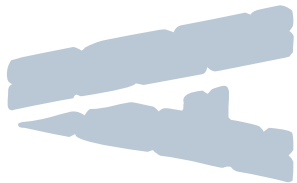


Apple TV



Apple TV Take-apart Manual

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your Mac. Visit
Powerbookmedic.com
today.

TAKE-APART

Our guide will show you step by step how to take apart your Apple TV. Each step will be given in great detail and aided with high quality pictures of each step.

REPAIR

It will also show you what needs to be done for each ailment your Apple TV may be having. It will explain why it is doing it and where to find the parts to fix it.

REASSEMBLE

The hardest part about a repair is reassembly. With this guide, it will assist you in getting those screws back where they came from.

Disclaimer

Any portion of this manual may not be copied, reproduced, or distributed without the written consent of Powerbookmedic.com. Violators will be prosecuted.

This manual is presented as a guide in order to help you repair problems with your Apple TV. Working on an Apple TV can be dangerous if not done properly. We at Powerbookmedic.com take no responsibility for any damage or harm done to yourself or your Apple TV as a result of reading this guide.

Apple manufactures several revisions in each line of their products. This guide will try to cover each of these revisions, but you may find subtle differences between our manual and what you see in your unit. This may require small adjustments to the repair procedure as described in our manual. If you are confused at what you are seeing in comparison to the manual's description and pictures, you may contact us by phone or email and we will try to assist you.

As of the writing of this manual, Apple's warranty policy denotes that opening up your Apple product will void the warranty. If you are

still under coverage by Apple for your Apple TV, we would suggest contacting them first.

Repair Center

Powerbookmedic.com offers a repair service if you do not feel confident on performing the repair yourself after reading this manual. The repair service is a flat labor charge plus the cost of the parts needed.

You can view our labor fees on our website by clicking on the repair center link at the top of the page.

Suggestions?

If you see any problems with the manual, tips you would like added, or any suggestions to make the manual better, don't hesitate to email us with your ideas to...

support@powerbookmedic.com

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TOOLS NEEDED

Torx T8 Screwdriver
Torx T10 Screwdriver
Torx T15 Screwdriver



Phillips #00 Screwdriver



Putty Knife

Other tools...

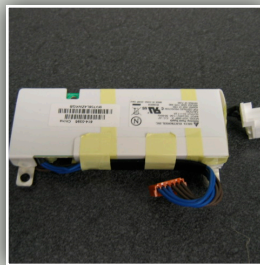
A spudger and tweezers may also be helpful during the repair but are not necessary.



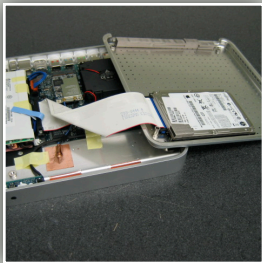
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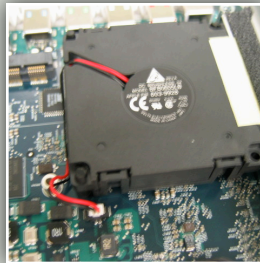
[Removing the Rubber Base](#)



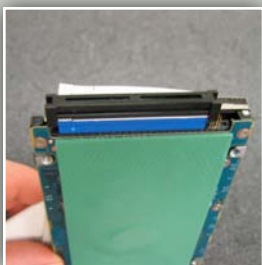
[Removing the Power Supply](#)



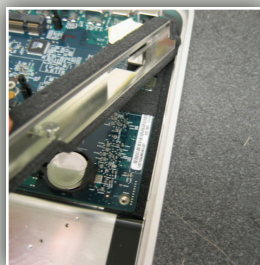
[Removing the Bottom Shield](#)



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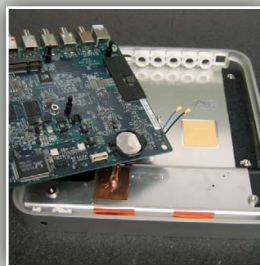
[Removing the Hard Drive](#)



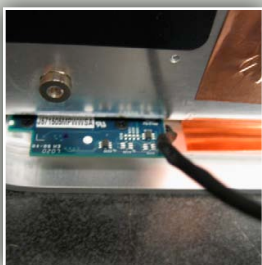
[Removing the Bracket](#)



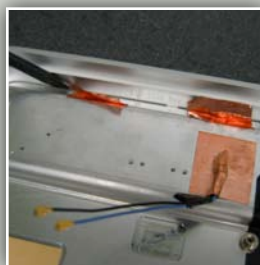
[Removing the Airport](#)



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[Removing the IR Sensor](#)



[Removing the Metal Trim](#)

APPLE TV

Introduction:

General information about your Apple TV.

Welcome to the Apple TV Repair Guide provided by Powerbookmedic.com

YOUR FIRST LOOK AT THE APPLE TV...

The Apple TV is Apple's try with the media center market. With their extreme success with iTunes, it was inevitable that it would eventually jump the gap from the computer screen to the television. So many people have iPods and purchase music, music videos, television shows,

and movies online with iTunes that allowing all of that media to be viewable on your television and playable through much better sound systems was a no-brainer.

When it comes down to it, the Apple TV is still a computer and computers can have problems. The casing can get damaged, the hard drive can die, the main logic board can get fried by a power surge. All of these warrant repairing the unit, and this guide will give you the option to repair it yourself instead of sending it off to get repaired.

This guide only explains taking apart and repairing your Apple TV. For other information, you will need to look elsewhere online.

Apple has now ventured into your living room and brought with it its outstanding iTunes capabilities to your television set including music and videos.



The Box

It will include the power cable, remote, Apple TV, and the manual.

Close look at the Apple TV...

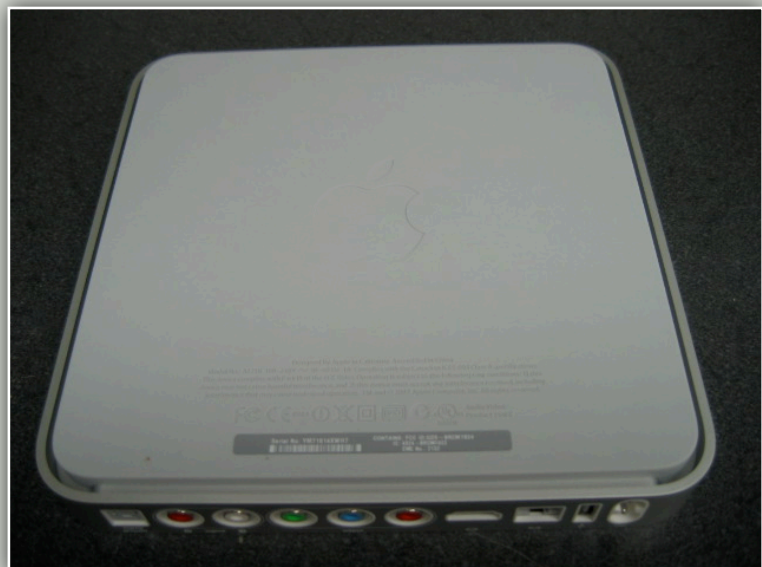
The Apple TV has a beautiful design. It is similar to the Mac Mini in its compact engineering with metal frame and reflective top.



The rear of the Apple TV includes the Power Connector, USB, Ethernet, DVI, Component (RGB), L/R Stereo, and Optical Audio outputs.



The bottom of the Apple TV is covered by a rubberized bottom to help give traction on the shelf and to help with any vibrations from the fan. The take apart process begins here.



STEP BY STEP



Bottom

The bottom is the doorway to opening the Apple TV. It also has your serial number on it so you don't want to damage it.

Removing the Rubber Base

1

The first thing to do to begin the take-apart process is to flip the Apple TV over with the bottom side up.

2

Starting at the rear of the Apple TV where the ports are, you should notice a part of the frame that extends underneath the rubber base. Slide your putty knife underneath the lip of the rubber.

3

Once you have the knife securely under the rubber base, free up that corner and gently lift until you can get a good hold of the rubber base and can lift it.

4

Start peeling the rubber base off. It is held on by a mild adhesive. Just start with the edges and work your way around until the base is completely off.



Removing the Bottom Shield

1

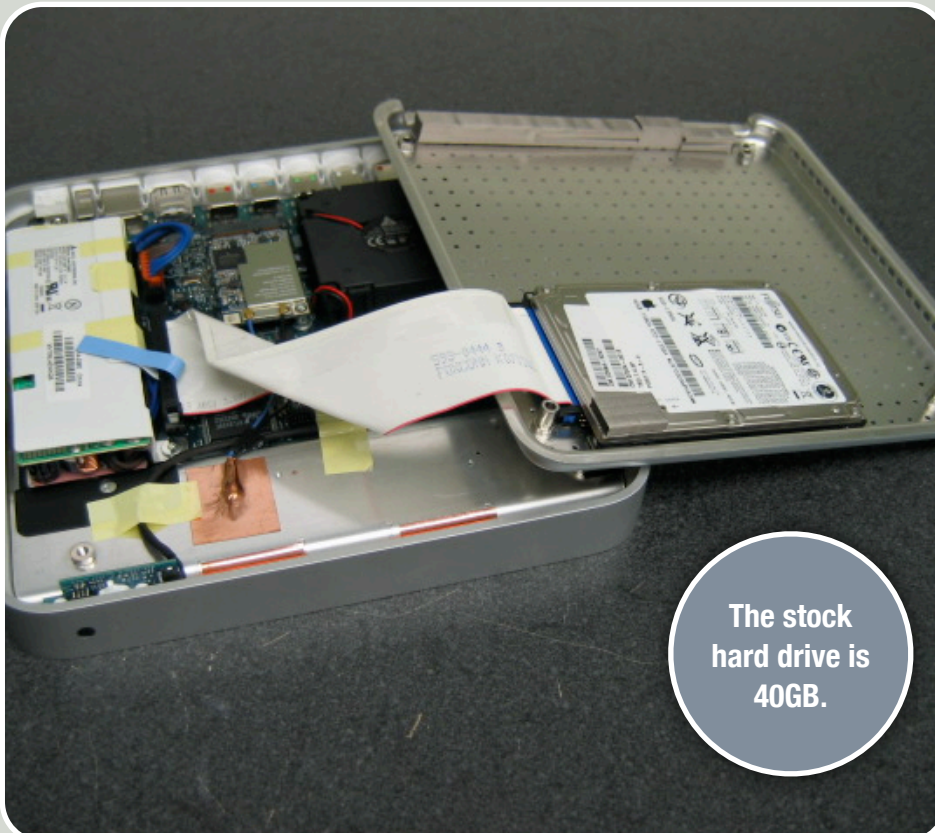
Once the rubber base is removed, we can take off the bottom shield. The shield is attached to the main body by 4 T10 screws around the corners. There are two near the front which are both longer 15 mm screws. The two rear screws are 10 mm. The four T8 screws should be skipped for now.

2

Once those screws are removed, we need to gently pry up the bottom shield. It is best to stick a small screwdriver or spudger into one of the vent holes and lift up. The front or right side are preferable as the hard drive cable is connecting the bottom shield to the main body of the Apple TV.

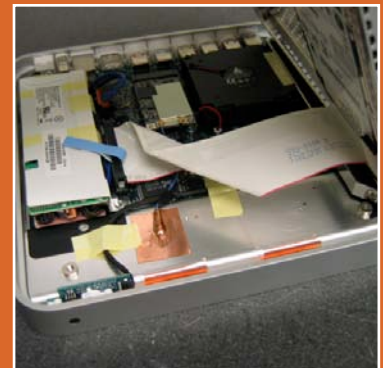
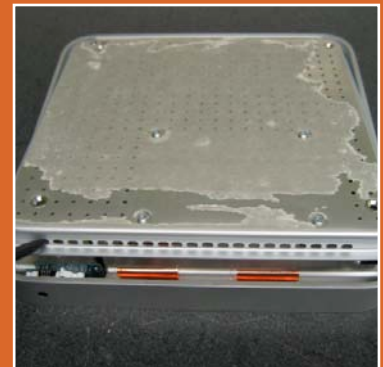
3

You can flip the bottom shield over and rest it down. You can then disconnect the hard drive cable from the main logic board. The cable should have a small blue loop that you can use to pull the cable free. The bottom shield should now be separate from the main body.



The stock
hard drive is
40GB.

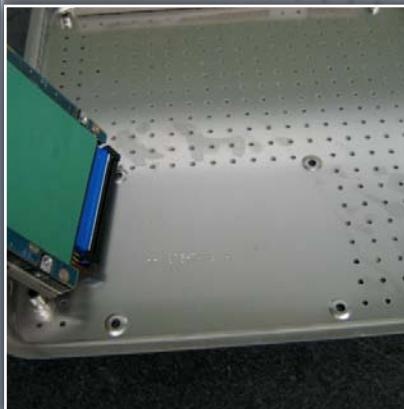
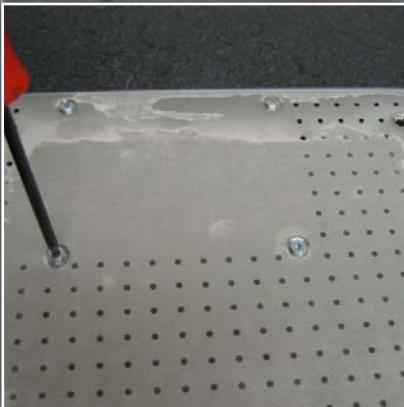
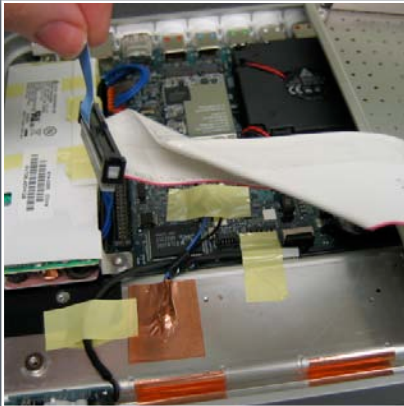
STEP BY STEP



Shift Key

The design on the shift key is different from the other keys. It has a different style scissor mechanism that sometimes brings people trouble, but it isn't that difficult once you get the hang of it.

STEP BY STEP



Hard Drive

The built-in hard drive is a 40GB Fujitsu 2.5" EIDE. The Apple TV is not using the newer SATA technology found in the Macbook and Macbook Pro product lines.

Removing the Hard Drive

1

Make sure the Hard Drive cable is disconnected from the main logic board and the bottom shield is separated from the main body of the Apple TV.

2

Flip the bottom shield back over and you should see the 4 T8 screws we skipped earlier holding the hard drive in. Remove these screws.

3

Flip the shield back over and you should be able to pull the hard drive off of the shield. There is a slight adhesive.

4

The other end of the hard drive cable can now be disconnected from the hard drive.



Removing the Airport Card

1

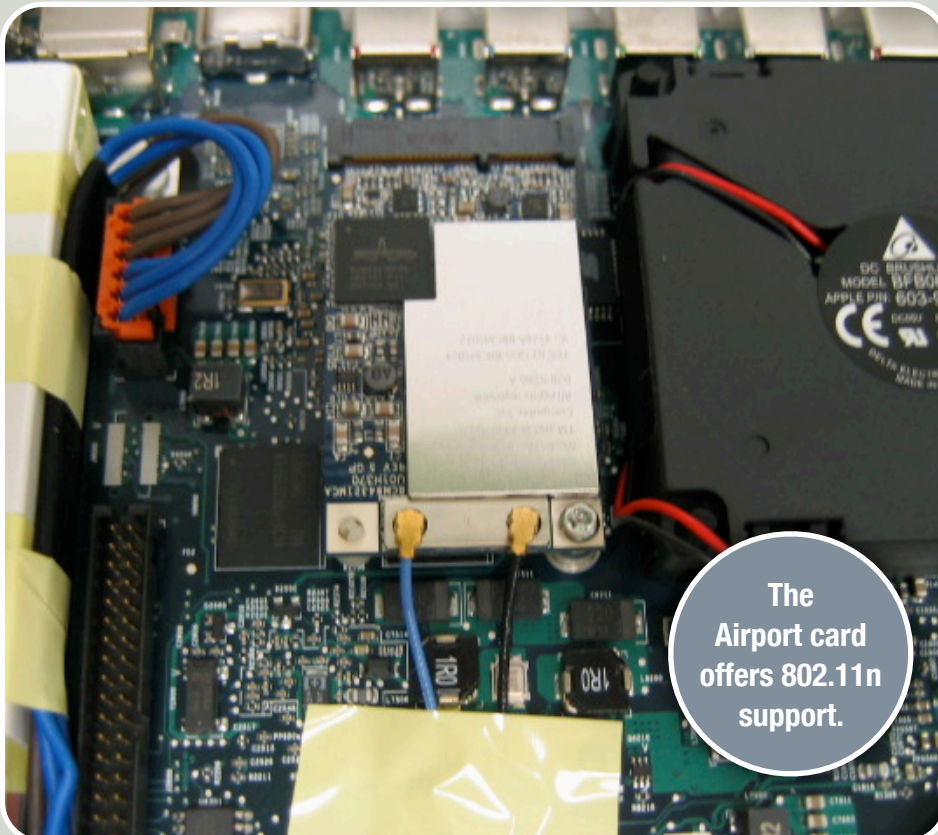
The Airport card is located in the middle near the rear of the Apple TV. It is connected to the main logic board and has two antenna cables hooked up to it. These need to be removed with needle-nose pliers or a spudger. Just lift up as straight as you can in order to not damage the cables.

2

After the antenna have been removed, there is a T8 screw (12 mm in length) anchoring the Airport card to the main logic board. Unscrew it.

3

After the screw is removed, the card should pop up. You should then be able to pull it straight out towards the front of the unit.



The
Airport card
offers 802.11n
support.

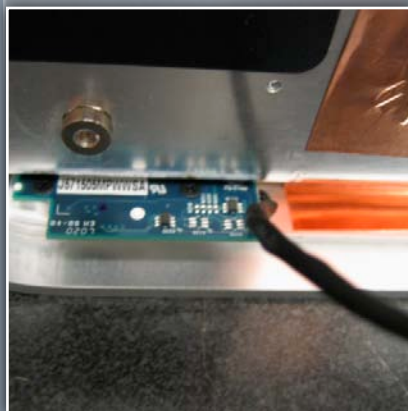
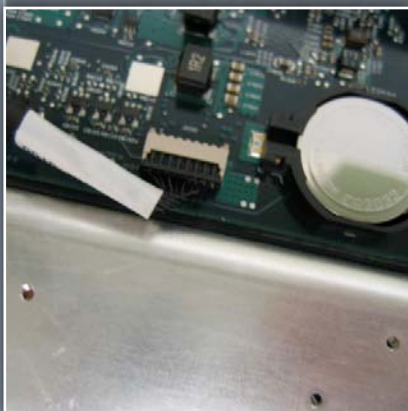
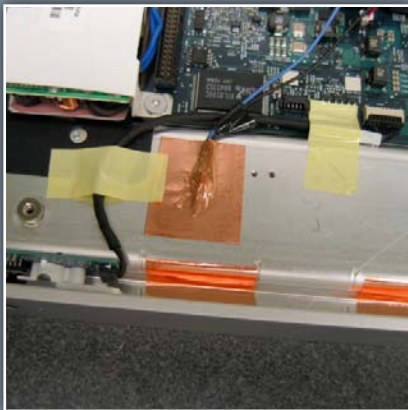
STEP BY STEP



Airport Card

The Airport card provides wireless connectivity to your wireless base station giving you the power to wirelessly access the internet as well as your networked machines.

STEP BY STEP



Infrared Sensor

The IR sensor allows you to control your Apple TV with the remote control. IR sensors rarely go bad, but it is a possibility if your remote no longer works.

Removing the Infrared Sensor

1

The IR sensor cable has two pieces of tape holding it down. Remove both of these pieces.

2

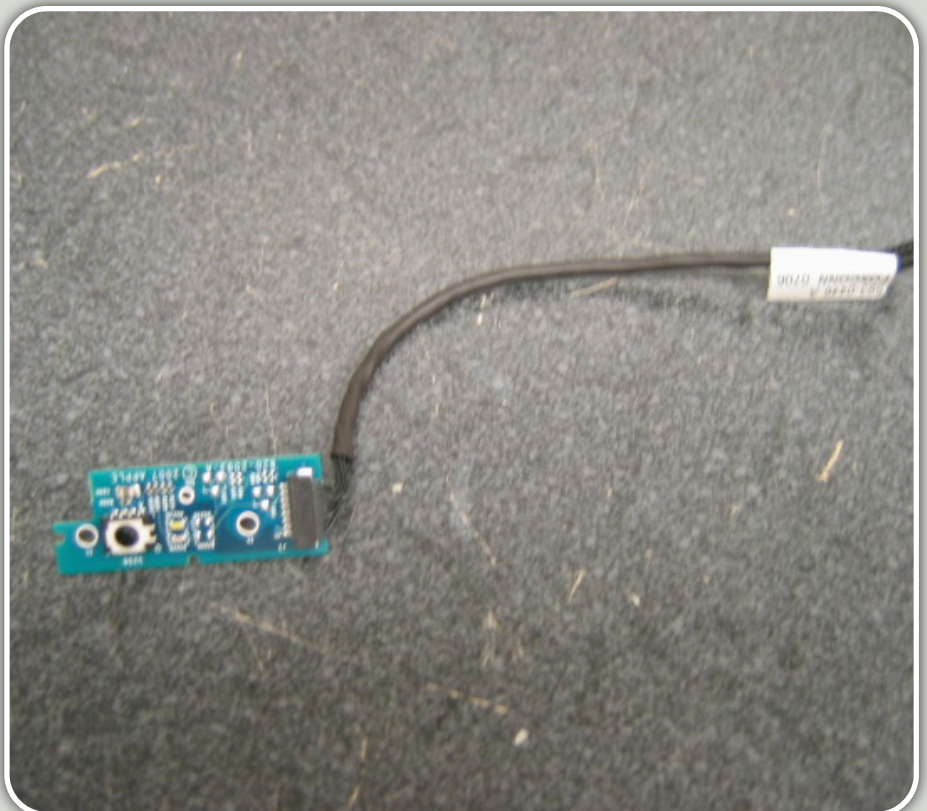
The cable connects to the main logic board as seen in the second picture to the left. Disconnect this cable. It can be difficult to disconnect so you may want to use a spudger to assist you.

3

The IR sensor is anchored to the metal trim with two black screws. Unscrewing these can be tricky and may require a very small Phillips screwdriver or unscrewing them at a slight angle.

4

Once the screws are removed, you can pull out the sensor.



Removing the Power Supply

1

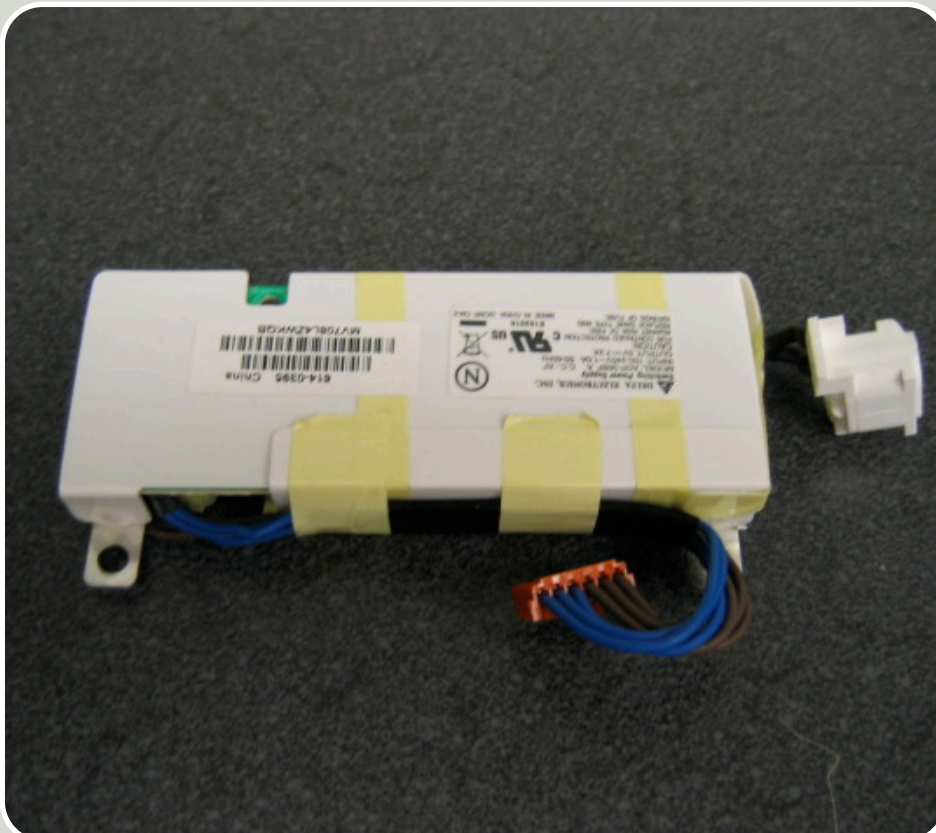
The power supply is the large white brick located in the rear corner of the Apple TV. It is held on by 3 T8 screws. There are two 6 mm screws with fat heads fastening it to the logic board and one 12 mm screw fastening it to the chassis.

2

The power cable is the blue and orange cable connecting the power supply to the main logic board. To disconnect the cable, you need to press the orange tab and then pull up on the cable.

3

The power supply also includes the power connector that routes to the casing. You will need to apply pressure down and back on the power connector until it pops free.



STEP BY STEP



Power Supply

The design on this power supply is very different from what we usually see from Apple as it is quite bulky, but it is not yet known the lifetime and dependability of these power supplies. The manufacturer is labeled as Delta Electronics.

THE FAN



The Fan

This is an extremely quiet fan and is attached by rubber pegs to the main logic board to even further help in reducing the fan noise due to vibrations.

Removing the Fan & Bracket

1

The fan is attached to the main logic board by the power cable with the red and black wire. It needs to be disconnected. A spudger may assist in loosening the connection to get the cable free.

2

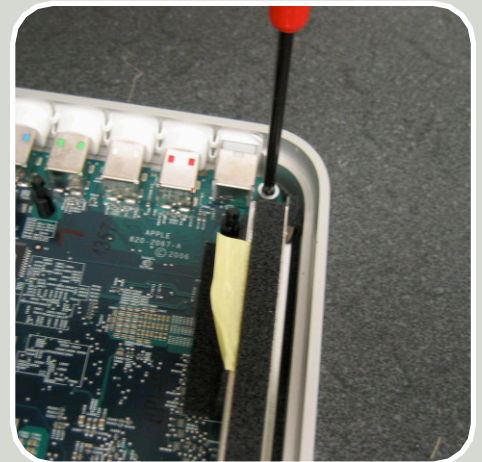
There are 3 pegs connecting the fan to the main logic board. The tops of the pegs need to be squeezed together and pushed through the holes in the fan in order to free it.

3

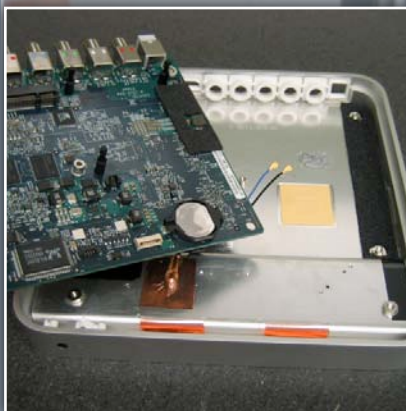
Once the pegs are all fed through the holes, the fan can be lifted out. There is most likely going to be a piece of tape on one side of the fan.

4

The bracket next to the fan is held down by two screws. The one near the rear ports requires a Torx T15 screwdriver and the one near the front is a Torx T8 screw. This screw will require a small screwdriver than can fit through the hole above the screw or you may have to try and unscrew it from an angle.



STEP BY STEP



Infrared Sensor

The IR sensor allows you to control your Apple TV with the remote control. IR sensors rarely go bad, but it is a possibility if your remote no longer works.

Removing the Logic Board & Trim

1

After the bracket is removed, you can begin taking out the logic board. Lift from one of the front corners of the board. The other side of the board may be stuck to the top case by the thermal compound.

2

Once the logic board is free of the thermal compound, you can pull the board out towards the front of the Apple TV.

3

The trim can then be removed by peeling off the two metallic tape strips and lifting the trim away from the top case.

